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18ME36A/18MEA306/18MA36/18ME46A

Third/Fourth Semester B.E. Degree Examination, July/August 2021

**COMPUTER AIDED MACHINE DRAWING**



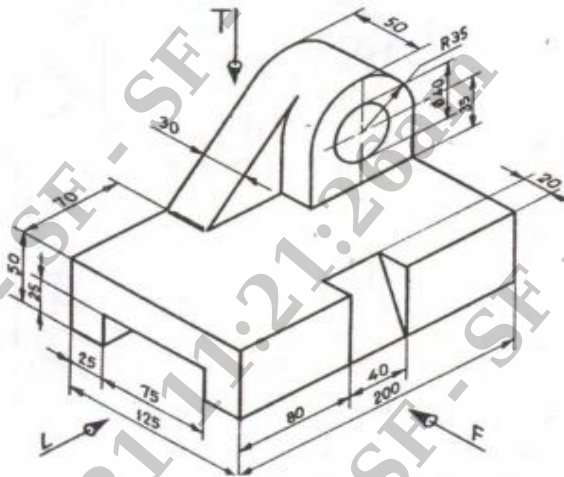
Time: 3 Hours

Max. Marks: 100

- Note:
1. Answer any ONE question from each of the parts A, B and C.
  2. Use **First angle** projections only.
  3. If any data is missing it may be suitably assumed and mentioned.
  4. All the calculations should be on the answer sheet supplied.
  5. All the dimensions are in mm.
  6. Drawing instruments may or may not be used for sketching.
  7. Part C assembly view should be in 3-D and other views in 2-D.

**Part – A**

1. Using First Angle Projection, Draw the Orthographic Views of the object shown in fig below.



**25 Marks**

2. Draw the two views of square-headed bolt M25X100 and a thread length of 60mm, with a square nut indicates all the proportions and actual dimensions.

**25 Marks**

**Part – B**

3. Draw the following view of a SOCKET and SPIGOT COTTER JOINT used to joining two rods of diameter 20 mm (a) Sectional front view (b) A view looking from socket end.

**(25 Marks)**

4. Draw sectional front view and side view of Oldham's coupling to connect two rods of diameter 20 mm, indicate all dimensions.

**(25 Marks)**

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**Part – C**

5. Figure 1 shows the details of a “PLUMBER BLOCK”. Assemble the parts of the show the following views.
- Half sectional front view showing the right half in section.
  - Top view.
- (50 Marks)**
6. Figure 2 shows the part drawing of a “TAIL-STOCK”. Assemble the Parts and show the following views.
- Sectional front view
  - Top view.
- (50 Marks)**



